

**The BA568E** is a two input general purpose counter which can display the sum or difference between the two pulse inputs, or the count direction of Input A may be controlled by input b. The output from a quadrature sensor can also be decoded to calculate and display position. The counter is easy to use and each input can be independently configured on-site to operate with a magnetic pick-off, switch contact, proximity detector, open collector or a sensor with a voltage pulse output. A slide-in scale card can be supplied printed with units of measurement, or can easily be marked on-site.

Any application requiring the sum or difference of pulse outputs from two sensors, such as counting the number of strokes performed by two reciprocating pumps and displaying total volume pumped in engineering units, can be performed by the BA568E. The counter's quadrature input also enables the position of a shaft or cable to be displayed together with its speed and direction of movement.

The large display has high contrast and a very wide viewing angle enabling the counter to be read in most lighting conditions over a wide temperature range. The total display may be shown in almost any engineering units and may be reset using the front panel push buttons or an external contact closure. Rate may be displayed in the same or different units of measurement per second, minute or hour.

**IP66 front panel protection** with a neoprene gasket to seal the joint between the counter and the instrument panel allow the BA568E to be installed in areas that will be washed down. To simplify installation and maintenance, the counter has removable terminal blocks allowing panel wiring to be completed before the instrument is installed.

The isolated open collector pulse output can be configured to synchronously retransmit either pulse input, or a pulse each time the least significant digit of the total display is incremented.

**Display backlighting**, which is internally powered from the counter, is available as a factory fitted option. It provides green background illumination enhancing daylight viewing and allowing the display to be easily read at night or when the counter is installed in a poorly illuminated area.

An optional isolated 4/20mA current sink output may be configured to produce an analogue output proportional to any part of the rate or total display.

**Optional dual alarms** can switch loads such as a sounder or solenoid valve. The two galvanically isolated, solid state voltage free outputs may be independently configured as total or rate alarms with normally open or closed outputs. Annunciators on the BA568E display show the status of both alarm outputs.

If panel space is limited the BA567E is a one input counter housed in a 96 x 48mm enclosure which has similar single input features as the BA568E. Alternatively for applications in severe environments, or where the front of the instrument may be impacted, the BA567E-SS is housed in a rugged 316 stainless steel enclosure.

For applications in flammable atmospheres the BA368E, which is identical to the BA568E, has international intrinsic safety certification. For Zone 2 or 22 applications the rugged stainless steel BA367NE has Ex nA and Ex tc certification allowing installation without Zener barriers or galvanic isolator.

# **BA568E**

## Two input counter

### **General purpose**

- Configurable inputs: magnetic pick-off, switch contact, proximity detector, open collector or voltage pulse.
- Separate rate and total displays.
- Can display position from quadrature sensor output.
- 144 x 72mm DIN enclosure with IP66 front protection.
- Simple on-site scale card installation.
- Isolated pulse output
  - Optional: Backlight Dual alarms 4/20mA output
- 3 year guarantee

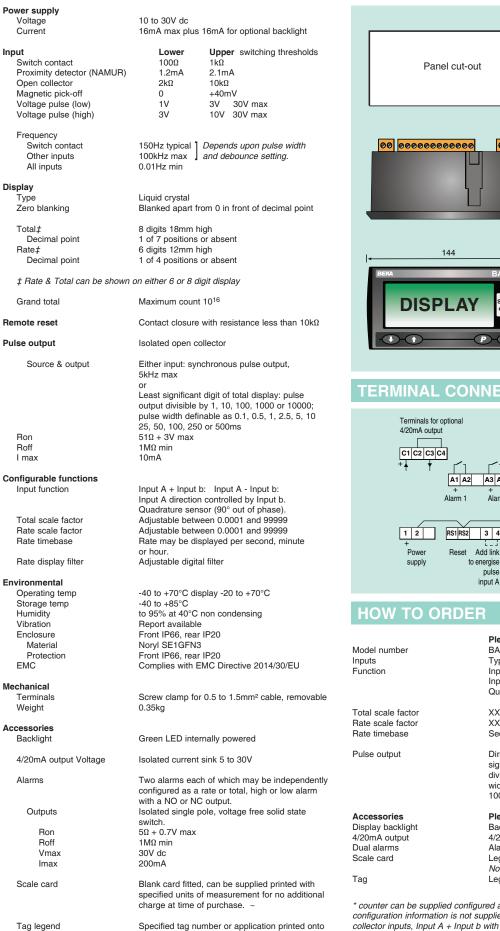
www.beka.co.uk/ba568e



BEKA associates Ltd. Old Charlton Rd. Hitchin, Hertfordshire, SG5 2DA, U.K. Tel. (01462) 438301 Fax (01462) 453971 e-mail <u>sales@beka.co.uk</u> <u>www.beka.co.uk</u>

#### **SPECIFICATION**

### **DIMENSIONS** (mm)

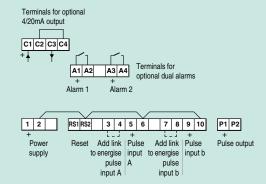


~ See accessory datasheet for details

rear of instrument.

Recommended panel cut-out To achieve an IP66 seal between the instrument and the panel 136.0 +0.5/-0.0 x 66.2 +0.5/-0.0 Four panel mounting clips must be used DIN 43 700 138.0 +1.0/ -0.0 x 68.0 +0.7/ -0.0 000 65 <u>;</u> Terminals for output 72 options not shown 

#### **TERMINAL CONNECTIONS**



Please specify BA568E Type ' Input A + Input b: Input A - Input b: Input A direction controlled by Input b. Quadrature sensor (90° out of phase). XXXXX \* XXXXX \* Seconds, minutes or hours\* Direct retransmission or derived from least significant digit of total display: pulse output divided by 1, 10, 100, 1000 or 10000; pulse width defined as 0.1, 0.5, 1, 2.5, 5, 10, 25, 50 100, 250 or 500ms. Please specify if required Backlight 4/20mA output Alarms Legend required No charge if ordered with counter Legend required

\* counter can be supplied configured as required for no additional charge. If configuration information is not supplied, instrument will be configured for open collector inputs, Input A + Input b with total and rate scaling factors of 1.0 and a timebase of seconds with direct pulse retransmission. Can easily be reconfigured on-site